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1 6 25  
HSP 65 - M.T. -----MAKTI AYDEEARRGL ERGLNALADA  
HSP 60 - RAT MLRLPTVLRQ MRPVSRALAP HLTRAYAKDV KFGADARALM LQGVDLLADA  
HSP 60 - HUMAN MLRLPTVFRQ MRPVSRVLAP HLTRAYAKDV KFGADARALM LQGVDLLADA  
Consensus -----AK-- -----AR--- --G---LADA

26 75  
HSP 65 - M.T. VKVTLGPKGR NVVLEKKWGA PTITNDGVSI AKEIELEDPY EKIGAEIVKE  
HSP 60 - RAT VAVTMGPKGR TVIIEQSWGS PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD  
HSP 60 - HUMAN VAVTMGPKGR TVIIEQSWGS PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD  
Consensus V-VT-GPKGR -V--E--WG- P--T-DGV-- AK-I-L-D-Y --IGA-LV--

6-7 (31-52 AA)

76 125  
HSP 65 - M.T. VAKKTDDVAG DGTTTATVLA QALVREGLRN VAAGANPLGL KRGIEKAVEK  
HSP 60 - RAT VANNTNEEAG DGTTTATVLA RSIKEGF EK ISKGANPVEI RRGVMLAVDA  
HSP 60 - HUMAN VANNTNEEAG DGTTTATVLA RSIKEGF EK ISKGANPVEI RRGVMLAVDA  
Consensus VA--T---AG DGTTTATVLA -----EG--- ---GANP--- -RG---AV--

21 (121-136 AA)

126 174  
HSP 65 - M.T. VTETLLKGAK EVETKEQIAA TAAISA.GDQ SIGDLIAEAM DKVGNVGVIT  
HSP 60 - RAT VIAELKKQSK PVTTPPEEIAQ VATISANGDK DIGNIISDAM KKVGRKGVIT  
HSP 60 - HUMAN VIAELKKQSK PVTTPPEEIAQ VATISANGDK EIGNIISDAM KKVGRKGVIT  
Consensus V---L-K--K -V-T-E-IA- -A-ISA-GD- -IG--I--AM -KVG--GVIT

175 224  
HSP 65 - M.T. VEESNTFGLQ LELTEGMKFD RGYISGYFVT DPERQEAVLE DPYILLVSSK  
HSP 60 - RAT VKDGKTLNDE LEIIEGMKFD RGYISPYFIN TSKGQKCEFO DAYVLLSEK  
HSP 60 - HUMAN VKDGKTLNDE LEIIEGMKFD RGYISPYFIN TSKGQKCEFO DAYVLLSEK  
Consensus V----T---- LE--EGM-FD -GYIS-YF-- ----Q----- D-Y-LL---K

31 (181-196 AA)

36 (211-226 AA)

225 274  
HSP 65 - M.T. VSTVKDLLPL LEKVIGAGKP LLIIAEDVEG EALSTLVVNK IRGTFKSVAV  
HSP 60 - RAT ISSVQSIVPA LEIANAHRKP LVIIAEDVDG EALSTLVNLR LKVGLOVVAV  
HSP 60 - HUMAN ISSIQSIVPA LEIANAHRKP LVIIAEDVDG EALSTLVNLR LKVGLOVVAV  
Consensus -S-----P- LE-----KP L-IIAEDV-G EALSTLV-N- -----VAV

FIG. 1A

40 (236-251 AA)

45 (265-280 AA)



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275. 323  
HSP 65 - M.T. KAPGFGDRRK AMLQDMAILT GGQVISEE.V GLTLENADLS LLGKARKVVV  
HSP 60 - RAT KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL NLNLEDVQAH DLGKVGIVT  
HSP 60 - HUMAN KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL TLNLEDVQPH DLGKVGIVT  
Consensus KAPGFGD-RK --L-DMAI-T GG-V--EE-- -L-LE----- -LGK---V-V

324 373  
HSP 65 - M.T. TKDETTIVEG AGDTDAIAGR VAQIRQEIEN SDSDYDREKL QERLAKLAGG  
HSP 60 - RAT TKDDAMLLKG KGDKAHIEKR IQEITEQLDI TTSEYEKERL NERLAKLSDG  
HSP 60 - HUMAN TKDDAMLLKG KGDKAQIEKR IQEIIIEQLDV TTSEYEKERL NERLAKLSDG  
Consensus TKD-----G -GD---I--R ---I----- --S-Y--EKL -ERLAKL--G

59 (349-364 AA)

374 423  
HSP 65 - M.T. VAVIKAGAAT EVELKERKHR IEDAVRNAKA AVEEGIVAGG GVTLLQAAPT  
HSP 60 - RAT VAVLKVGGS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA  
HSP 60 - HUMAN VAVLKVGGS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA  
Consensus VAV-K-G--- -VE--E-K-R --DA-----A AVEEGIV-GG G--LL---P-

63 (373-388 AA)

424 472  
HSP 65 - M.T. LDELK.LEGD EATGANIVKV ALEAPLKQIA FNSGLEPGVV AEKVRNLPAG  
HSP 60 - RAT LDSLKPANED QKIGIEIIR ALKIPAMTIA KNAGVEGSLI VEKILQSSSE  
HSP 60 - HUMAN LDSLTPANED QKIGIEIIR TLKIPAMTIA KNAGVEGSLI VEKIMQSSSE  
Consensus LD-L-----D ---G--I-K- -L--P---IA -N-G-E----- -EK-----

473 522  
HSP 65 - M.T. HGLNAQTGVY EDLLAAGVAD PVKVTRSAIQ NAASIAGLFL TTEAVVADKP  
HSP 60 - RAT VGYDAMLGDF VNMVEKGIID PTKVVRTALL DAAGVAPLLT TAEAVVTEIP  
HSP 60 - HUMAN VGYDAMAGDF VNMVEKGIID PTKVVRTALL DAAGVASLLT TAEVVVTEIP  
Consensus -G--A--G-- -----G--D P-KV-R-AL- -AA--A-L-- T-E-VV---P

84 (499-514 AA)

523 540  
HSP 65 - M.T. EKEKASVPGG GDMGGMDF--  
HSP 60 - RAT KEEKD..PGM GAMGGMGGGM GGGMF  
HSP 60 - HUMAN KEEKD..PGM GAMGGMGGGM GGGMF  
Consensus --EK---PG- G-MGGM-----

FIG. 1B

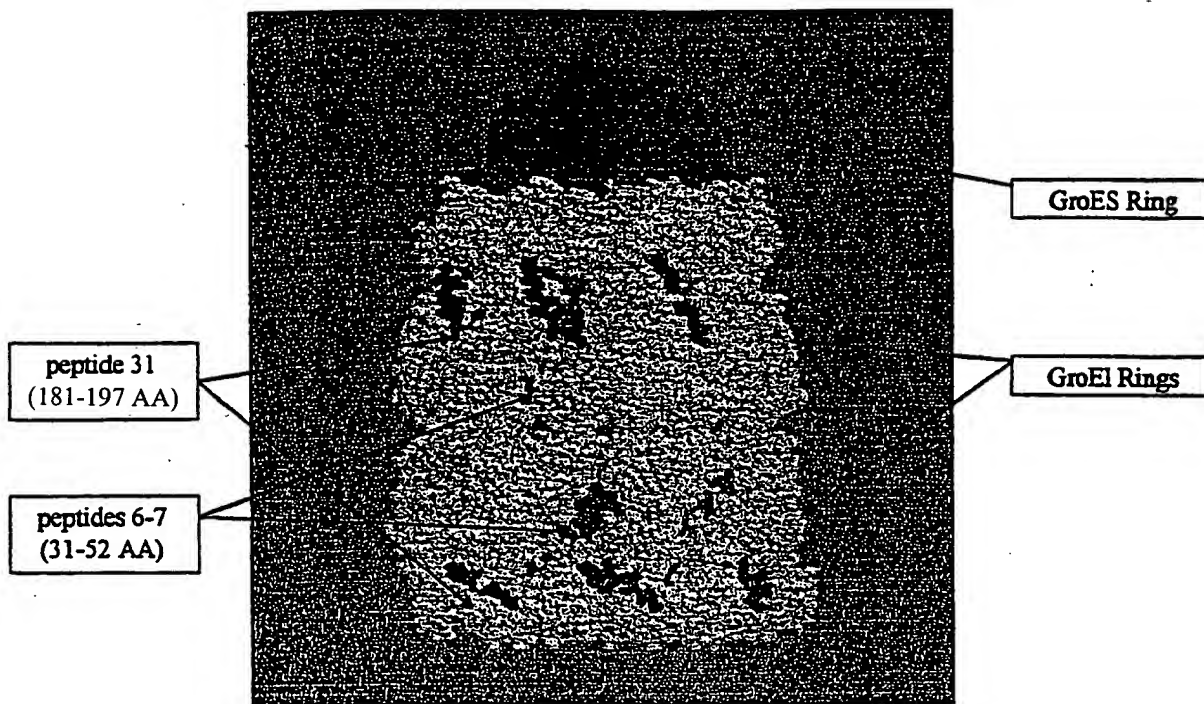


FIG. 2

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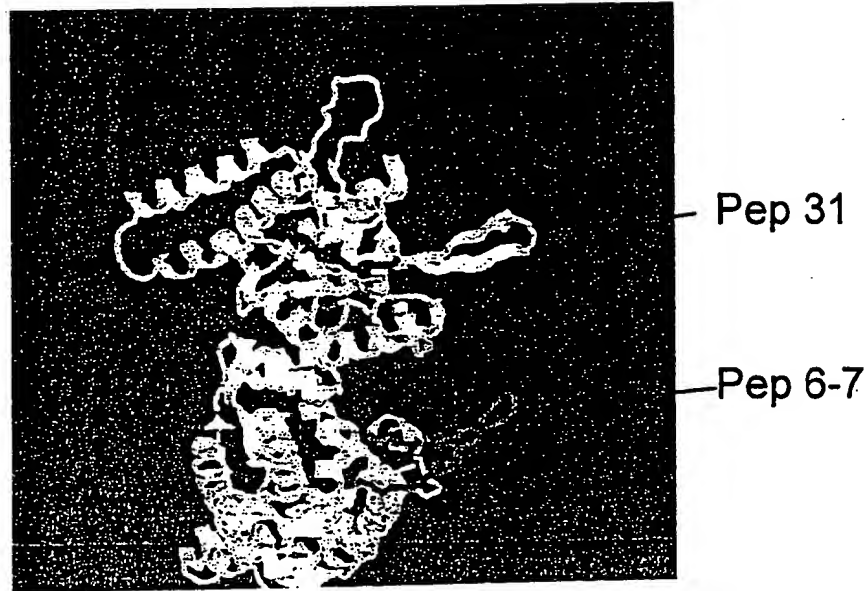


FIG. 3A

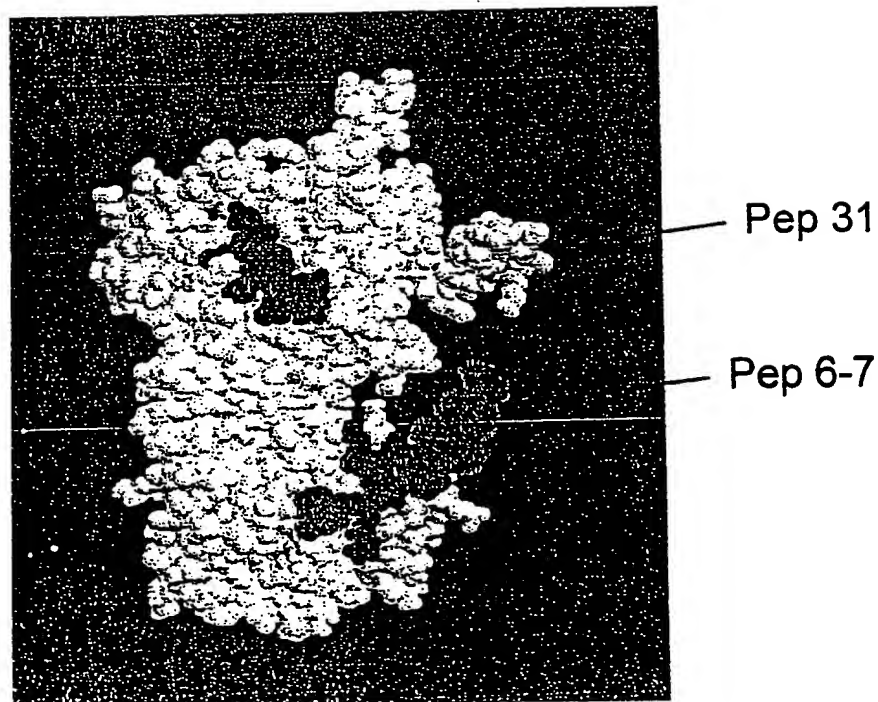


FIG. 3B

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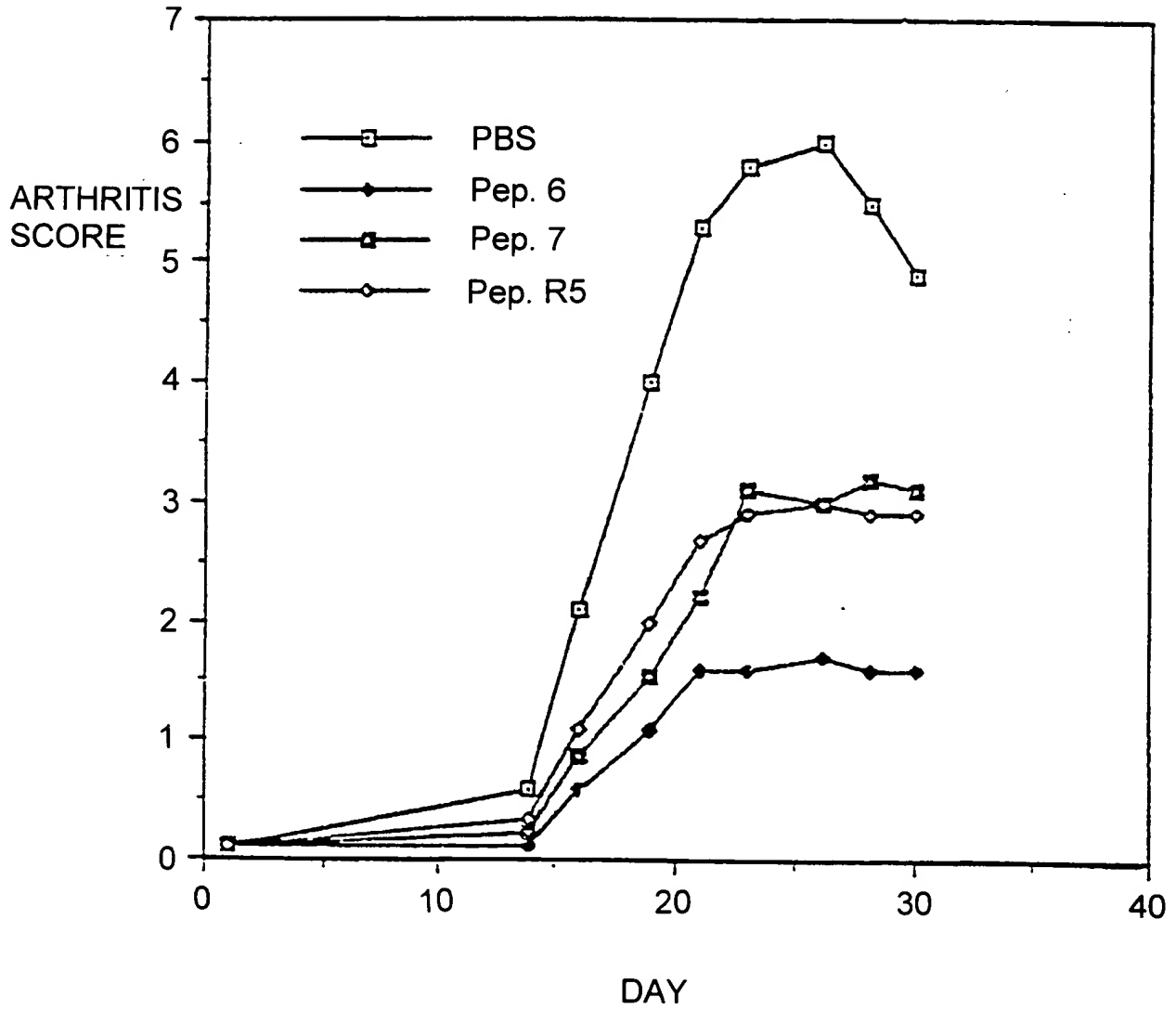


FIG. 4



### The "Protective" Motif

MT	HSP Peptide 6- (31-46)	G P K G R N <u>V</u> <u>V</u> L <u>E</u> K K <u>W</u> <u>G</u> A <u>P</u>
MT	HSP Peptide 7- (37-52)	<u>V</u> <u>V</u> L <u>E</u> K K <u>W</u> <u>G</u> A <u>P</u> T I T N D G
Rat	HSP Peptide 5- (36-55)	T <u>V</u> <u>I</u> <u>I</u> <u>E</u> Q S <u>W</u> <u>G</u> S <u>P</u> K V T K D G V T V

Common Motif

V = E - - W G - P

FIG. 5

FOR SEQUENCE

SEQUENCE

